

Listing of the Claims

1. (Currently Amended) A method for establishing a data communication session with a mobile subscriber in a wireless communication network, comprising:

receiving a request to registering a data communication session with a packet data server prior to a radio air link being established with the mobile subscriber;

sending a signal from the packet data server to trigger the establishment of a radio air link between the base station and the mobile subscriber to allow communication between the packet data server and the mobile subscriber; and

providing a waiting a set time period during which the packet data server refrains from before sending a configuration request to the mobile subscriber to allow establishment of the radio air link; and

following the wait time period, sending a configuration request signal to the subscriber to negotiate establishment of the data communication session.

2. (Cancel).

3. (Currently Amended) The method of claim 1, further comprising calculating a dynamic duration for the wait set time period based on a network condition and providing said dynamic duration to the packet data server.

4. (Currently Amended) The method of claim 1, wherein providing the waiting the set time period comprises providing a wait time period having a duration between 10 milliseconds and 1 second.

5. (Currently Amended) The method of claim 1, wherein providing the waiting the set time period comprises providing a wait time period having a duration of approximately 100 milliseconds.

6. (Original) The method of claim 1, wherein registering the data session comprises registering the data session according to an A11 protocol compatible with a Point-to-Point Protocol (PPP) communication network.

7. (Original) The method of claim 1, wherein sending the configuration request signal comprises sending a configuration request signal according to a protocol compatible with a Point-to-Point Protocol (PPP) communication network.

8. (Currently Amended) A method for communicating with a mobile subscriber in a wireless communication network, comprising:

receiving a request to register a data session with a packet data server prior to a radio air link being established with the mobile subscriber;

sending a signal from the packet data server to trigger the establishment of a radio air link between the base station and the mobile subscriber to allow communication between the packet data server and the mobile subscriber;

providing sending a first wait time period during which the packet data server negotiates an initial configuration signal to with the mobile subscriber from the packet data server; and

, the waiting a first set wait time period substantially defining a wait time following unsuccessful attempts to from sending an the initial configuration request signal to the mobile subscriber before sending a second initial configuration request signal, wherein the first set time period provides additional time for establishment of the radio air link during establishment of the data session; and

following providing the first wait time period, providing a second wait time period, different from the first wait time period, the second wait time period substantially defining a wait time following a data communication error event before the packet data server attempts to renegotiate the data session with the mobile subscriber.

9. (Currently Amended) The method of claim 8, wherein further comprising providing the a second wait time period triggered by a data communication error event before sending a configuration request signal to the mobile subscriber comprises providing a second wait time period having a duration exceeding that of the first wait time period.

10. (Original) The method of claim 8, further comprising repeatedly waiting a time equal to the first wait time period until an air link to the mobile subscriber is successfully established.

11. (Currently Amended) The method of claim 9, wherein providing at the second wait time period comprises providing a second wait time period having a duration substantially equal to a

default time-out duration defined by a communication protocol controlling the data communication.

12. (Currently Amended) The method of claim 8, wherein providing the first ~~set~~wait time period comprises providing a first wait time period having a duration between 10 milliseconds and 1 second.

13. (Currently Amended) The method of claim 8, wherein providing the first ~~set~~wait time period comprises providing a first wait time period having a duration of approximately 100 milliseconds.

14. (Cancel).

15. (Currently Amended) A method for establishing a data communication session with a mobile subscriber in a wireless communication network, comprising:

receiving a request to registering a data communication session with a packet data server prior to a radio air link being established with the mobile subscriber;

sending no configuration request signal until the packet data server receives a signal indicating that a radio air link has been successfully established to the mobile subscriber; and

following receipt of said signal indicating that the radio air link has been successfully established, sending a configuration request signal to the mobile subscriber.

16. (Currently Amended) A method for establishing a data communication session with a mobile subscriber in a ~~CDMA-2000~~ wireless communication network, the method comprising:

exchanging data session registration request and reply signals between a packet control function module and a data packet server module to register the data communication session according to a known communication control protocol; and

preventing a ~~premature~~-transmission of a data session configuration request signal from the data packet server module to the mobile subscriber prior to an air link is established by ~~preemptively~~-withholding the data session configuration request signal at the data packet server module until a triggering event is received by the packet data server indicating that the data session configuration request signal is to be sent to the mobile subscriber.

17. (Original) The method of claim 16, wherein withholding the data session configuration request signal continues until a time-based trigger signal is received by the packet data server.
18. (Original) The method of claim 16, wherein withholding the data session configuration request signal continues until an event-based trigger signal is received by the packet data server.
19. (Currently Amended) A system for wireless communication, comprising:
- a ~~mobile subscriber~~;
 - a packet data server;
 - a communication network adapted for carrying control and data packets between ~~the~~ mobile subscriber and the packet data server;
 - a radio air link portion of said communication network, the radio air link having associated therewith an air link establishment delay time; and
 - said ~~packet~~ data server including a processor that ~~triggers the establishment of the radio air link and attempts~~ sending a configuration request signal over said communication network responsive to an ~~trigger signal~~ indication that said radio air link is ready to carry said configuration request signal to said mobile subscriber to establish a first connection.
20. (Currently Amended) The system of claim 19, wherein the ~~indication~~ trigger signal comprises a time-based signal indicating that a wait time exceeding the air link establishment delay time has elapsed.
21. (Currently Amended) The system of claim 19, wherein the ~~indication~~ trigger signal comprises an event-based signal indicating that the air link has been successfully established to the mobile subscriber.
22. (New) The method of claim 1, further comprising buffering data packets prior to the successful establishment of a radio air link to the mobile subscriber.